

Name: _____

at1121exam_practice: Radicals and Squares (v601)

Question 1

Simplify the radical expressions.

$$\sqrt{20}$$

$$\sqrt{98}$$

$$\sqrt{27}$$

Question 2

Find all solutions to the equation below:

$$\frac{(x - 7)^2}{2} - 9 = -1$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 8x = -7$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 3x^2 - 30x + 81$$

Express the function in **vertex form** and identify the **location** of the vertex.